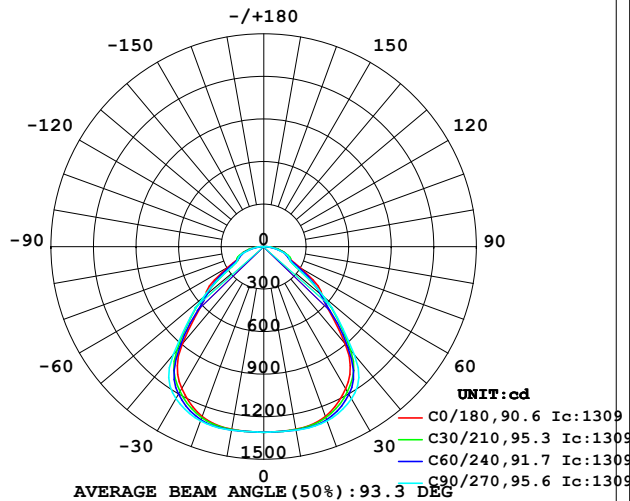


LUMINAIRE PHOTOMETRIC TEST REPORT

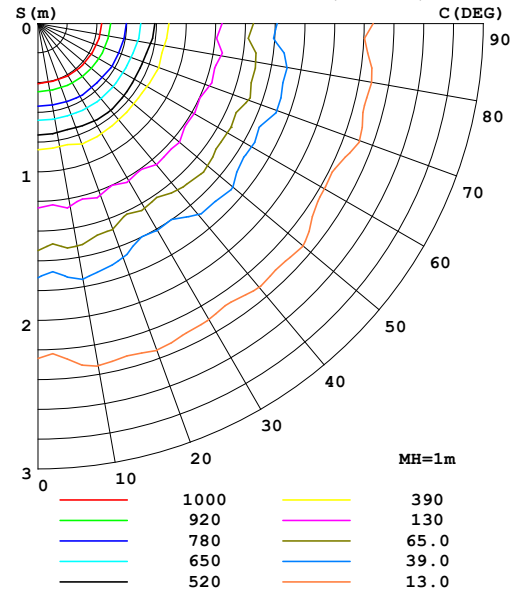
Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:0Hz Lamp Flux:3025.46x1 lm		
NAME: LTY18X030CT19 700mA_3000K	TYPE: YALA ONE	WEIGHT:
SPEC.:	DIM.: 300x600x12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.49 lm/W			
MODEL	LTY18X030CT19	I _{max} (cd)	1317	S/MH (C0/180)	1.27
NOMINAL POWER (W)	26	LOR (%)	100.0	S/MH (C90/270)	1.33
RATED VOLTAGE (V)	35	TOTAL FLUX (lm)	3025.5	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	3025.46	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	35	η down (%)	100.0	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-07-16

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 10.270m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1307	1311	1314	1311	1307	1311	1314	1311	0- 10	125.0	125.0	4.13,4.13
20	1274	1285	1307	1285	1274	1285	1307	1285	10- 20	369.5	494.5	16.3,16.3
30	1156	1171	1237	1171	1156	1171	1237	1171	20- 30	573.2	1068	35.3,35.3
40	894.0	884.7	995.4	884.7	894.0	884.7	995.4	884.7	30- 40	670.4	1738	57.5,57.5
50	538.8	536.3	562.3	536.3	538.8	536.3	562.3	536.3	40- 50	546.6	2285	75.5,75.5
60	294.7	287.0	230.6	287.0	294.7	287.0	230.6	287.0	50- 60	351.6	2636	87.1,87.1
70	172.2	158.7	174.4	158.7	172.2	158.7	174.4	158.7	60- 70	214.0	2850	94.2,94.2
80	96.98	83.44	83.11	83.44	96.98	83.44	83.11	83.44	70- 80	132.5	2983	98.6,98.6
90	0	0	0	0	0	0	0	0	80- 90	42.61	3025	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2088.5 lm

%lum = 69.0%

%lamp = 69.0%

Conical surface Flux(120deg): 2636.4 lm

%lum = 87.1%

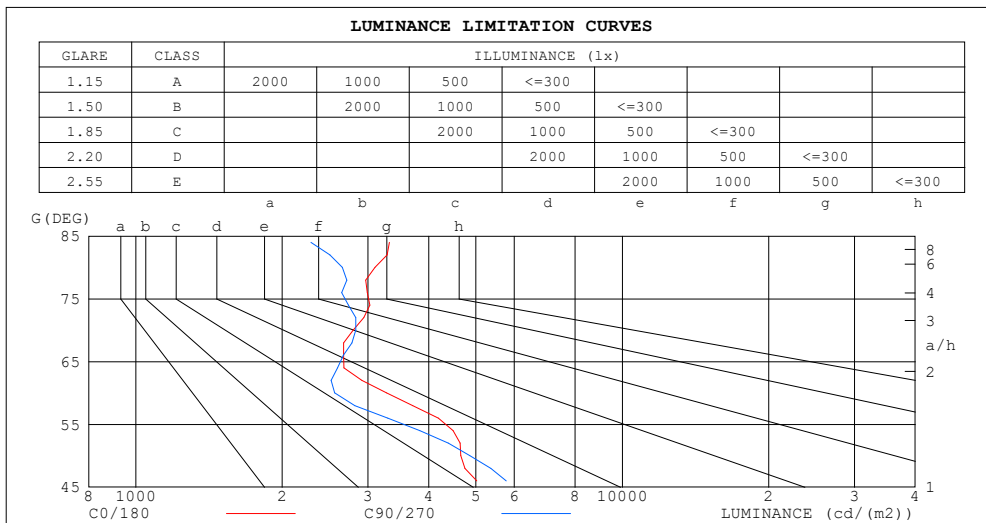
%lamp = 87.1%

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-07-16

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:10.270m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:0Hz Lamp Flux:3025.46x1 lm		
NAME: LTY18X030CT19_700mA_3000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3981	2749
80	3103	2658
75	3227	2912
70	2797	2833
65	2779	2695
60	3275	2562
55	4603	3929
50	4657	4859
45	5569	6309

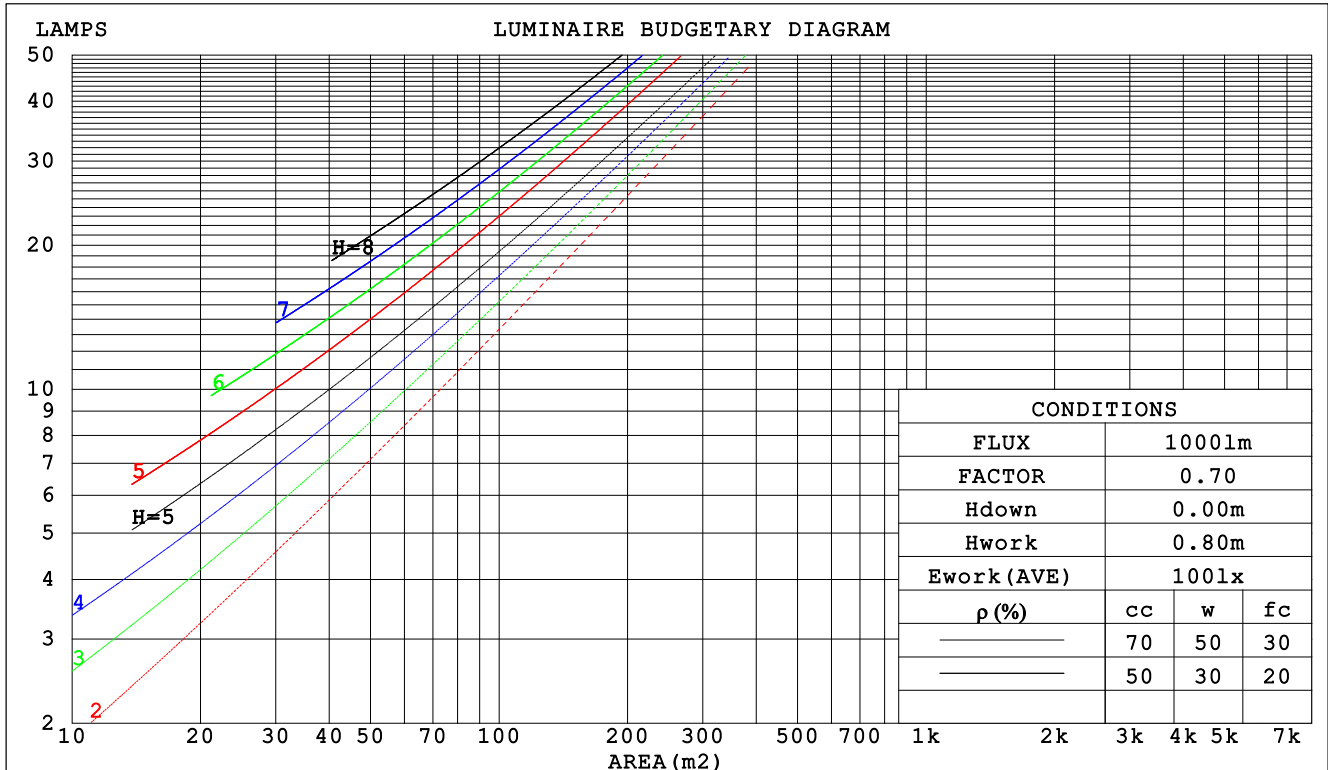
C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-07-16

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:0Hz Lamp Flux:3025.46x1 lm		
NAME: LTY18X030CT19_700mA_3000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.90	.97	.94	.96	.93	.91	.92	.90	.89	.87
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.86	.82	.78	.83	.80	.77	.75
3.0	.84	.77	.71	.83	.76	.70	.80	.74	.69	.77	.72	.68	.75	.70	.67	.65
4.0	.76	.68	.62	.74	.67	.61	.72	.65	.60	.70	.64	.60	.68	.63	.59	.57
5.0	.68	.60	.54	.67	.60	.54	.65	.58	.53	.63	.57	.53	.62	.56	.52	.50
6.0	.62	.54	.48	.61	.53	.48	.59	.53	.47	.58	.52	.47	.56	.51	.47	.45
7.0	.57	.49	.43	.56	.48	.43	.54	.48	.42	.53	.47	.42	.52	.46	.42	.40
8.0	.52	.44	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.48	.42	.38	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33
10.0	.44	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.41	.36	.32	.30



C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-07-16

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:10.270m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:0Hz Lamp Flux:3025.46x1 lm		
NAME: LTY18X030CT19_700mA_3000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.270	.154	.049	.263	.150	.048	.250	.143	.046	.238	.137	.044	.227	.132	.042		
2.0	.256	.140	.043	.250	.138	.042	.239	.133	.041	.228	.128	.040	.218	.123	.039		
3.0	.239	.127	.038	.234	.125	.038	.224	.121	.037	.215	.118	.036	.206	.114	.035		
4.0	.223	.116	.034	.219	.114	.034	.210	.111	.033	.202	.108	.033	.194	.106	.032		
5.0	.209	.106	.031	.205	.105	.031	.197	.102	.030	.190	.100	.030	.183	.098	.029		
6.0	.195	.098	.028	.192	.097	.028	.185	.095	.028	.178	.093	.027	.172	.091	.027		
7.0	.183	.091	.026	.180	.090	.026	.174	.088	.025	.168	.086	.025	.163	.085	.025		
8.0	.173	.084	.024	.170	.084	.024	.164	.082	.023	.159	.081	.023	.154	.079	.023		
9.0	.163	.079	.022	.160	.078	.022	.155	.077	.022	.151	.075	.022	.146	.074	.021		
10.0	.154	.074	.020	.152	.073	.020	.147	.072	.020	.143	.071	.020	.139	.070	.020		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.102	.143	.114	.088	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.159	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.129	.087	.054	.089	.060	.038	.051	.035	.022	.017	.012	.007	
5.0	.143	.090	.050	.123	.078	.044	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.130	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.124	.068	.030	.106	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.027	.102	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.113	.059	.023	.097	.051	.020	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-07-16

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:0Hz Lamp Flux:3025.46x1 lm										
NAME: LTY18X030CT19_700mA_3000K					TYPE:Edge-lit			WEIGHT:		
SPEC.:					DIM.: 300*600*12			SERIAL No.:1		
MFR.: TECONEX					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	16.8	18.1	17.0	18.3	18.5	16.8	18.1	17.0	18.3	18.5
3H	17.7	19.0	18.0	19.2	19.4	17.6	18.8	17.9	19.1	19.3
4H	18.2	19.4	18.5	19.7	19.9	18.0	19.2	18.3	19.4	19.6
6H	18.7	19.8	19.0	20.1	20.4	18.4	19.5	18.7	19.8	20.0
8H	18.9	20.0	19.3	20.3	20.6	18.5	19.6	18.8	19.9	20.1
12H	19.1	20.1	19.4	20.4	20.7	18.6	19.6	18.9	19.9	20.2
4H 2H	17.1	18.3	17.4	18.5	18.8	17.0	18.2	17.3	18.5	18.7
3H	18.3	19.3	18.6	19.6	19.9	18.1	19.2	18.5	19.4	19.7
4H	18.9	19.9	19.3	20.2	20.5	18.7	19.6	19.0	19.9	20.2
6H	19.6	20.5	20.0	20.8	21.2	19.2	20.0	19.6	20.4	20.7
8H	19.9	20.7	20.3	21.1	21.5	19.4	20.2	19.8	20.5	20.9
12H	20.2	20.9	20.6	21.3	21.7	19.5	20.2	19.9	20.6	21.0
8H 4H	19.2	20.0	19.6	20.3	20.7	18.9	19.7	19.3	20.1	20.4
6H	20.1	20.7	20.5	21.1	21.6	19.6	20.3	20.1	20.7	21.1
8H	20.5	21.1	21.0	21.5	21.9	19.9	20.5	20.4	20.9	21.3
12H	20.8	21.3	21.3	21.8	22.3	20.1	20.6	20.5	21.0	21.5
12H 4H	19.2	19.9	19.6	20.3	20.7	18.9	19.7	19.4	20.0	20.4
6H	20.1	20.7	20.6	21.1	21.6	19.7	20.3	20.2	20.7	21.2
8H	20.6	21.1	21.1	21.6	22.0	20.0	20.5	20.5	21.0	21.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.6				
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.2				
2.0H	+ 0.7 / - 0.8					+ 1.1 / - 1.0				

CIE Pub.117, 3025 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.8$)

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-07-16

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:0Hz Lamp Flux:3025.46x1 lm		
NAME: LTY18X030CT19_700mA_3000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

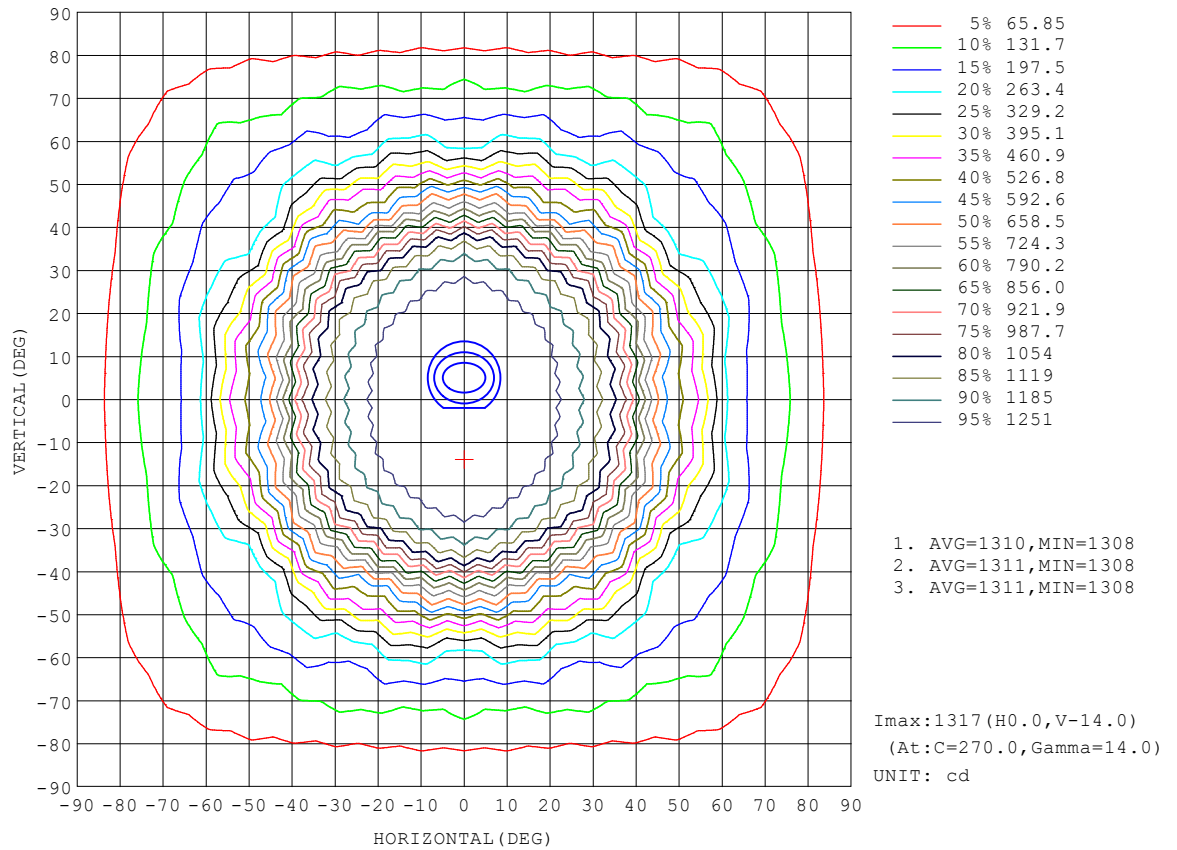
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	64	55	48	63	54	48	43
0.80	75	65	58	74	64	58	72	64	58	52
1.00	83	73	67	82	73	67	79	74	66	60
1.25	89	80	74	88	79	74	85	78	73	67
1.50	93	85	79	92	84	79	89	83	78	71
2.00	99	92	87	97	91	86	94	89	84	77
2.50	102	96	91	100	94	90	97	92	88	80
3.00	105	99	95	103	98	94	99	95	91	84
4.00	108	104	100	106	102	98	102	99	96	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-07-16

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:0Hz Lamp Flux:3025.46x1 lm		
NAME: LTY18X030CT19_700mA_3000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

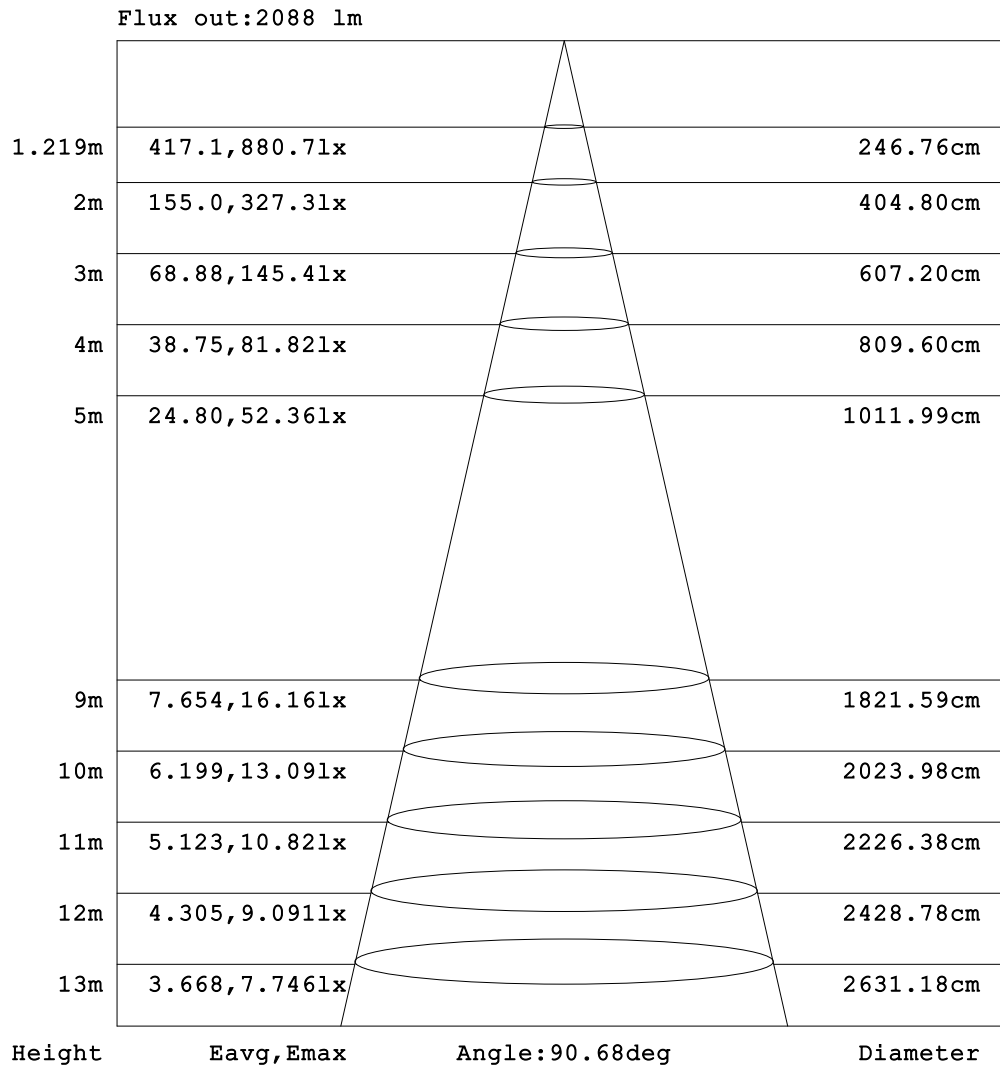


C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-07-16

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

AAI Figure

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:0Hz Lamp Flux:3025.46x1 lm		
NAME: LTY18X030CT19_700mA_3000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:



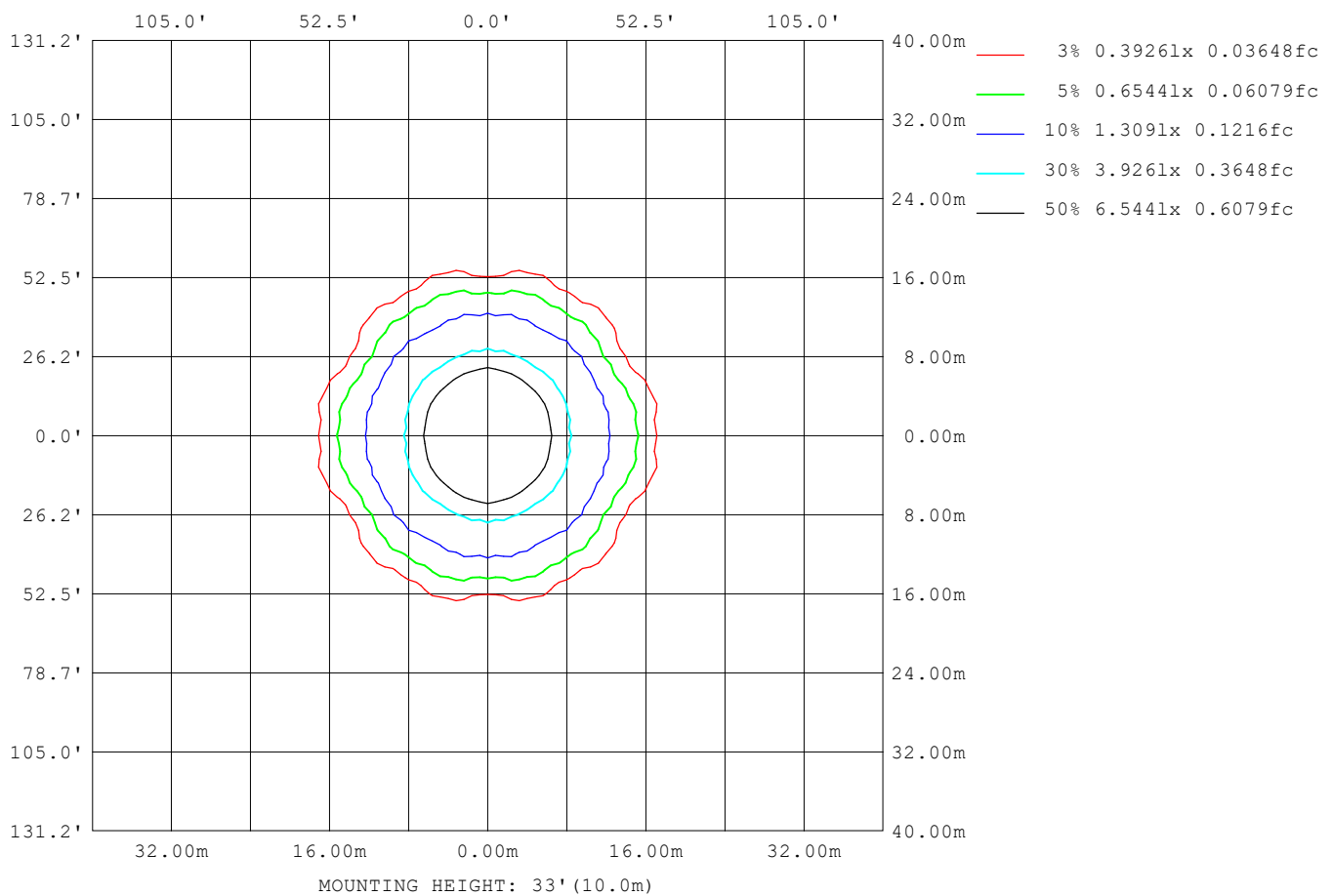
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2021-07-16

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 10.270m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:0Hz Lamp Flux:3025.46x1 lm		
NAME: LTY18X030CT19_700mA_3000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:



C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-07-16

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:35.000V I:0.7000A P:24.500W PF:1.0000 Freq:0Hz Lamp Flux:3025.46x1 lm		
NAME: LTY18X030CT19_700mA_3000K	TYPE:Edge-lit	WEIGHT:
SPEC.:	DIM.: 300*600*12	SERIAL No.:1
MFR.: TECONEX	SUR.:	Shielding Angle:

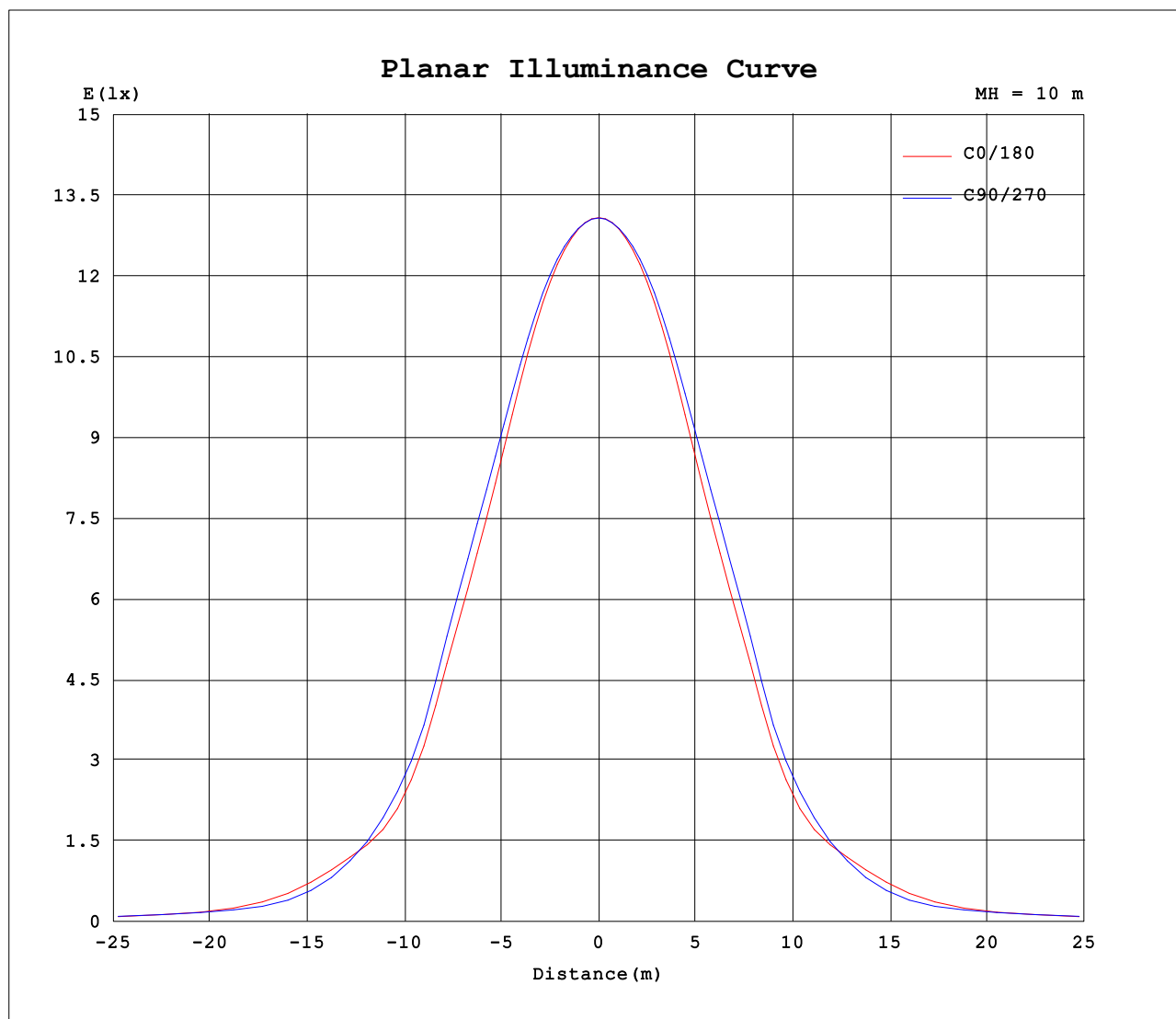
AvgL	cd/m2
L_0~180 (65) av	2660
L_0~180 (75) av	3018
L_0~180 (85) av	3325
L_90~270 (65) av	2633
L_90~270 (75) av	2684
L_90~270 (85) av	2085
L_45 (65) av	2964
L_45 (75) av	2468
L_45 (85) av	2197

Standard: GB/T 29293-2012

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-07-16

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:10.270m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2021-07-16

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 10.270m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

```

```

Range: 0 - 90DEG
Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:10.270m [K=1.0000]
Remarks:

```